

Figure 1

2022-09-14 11:00

20 ug/mL Proteinase K

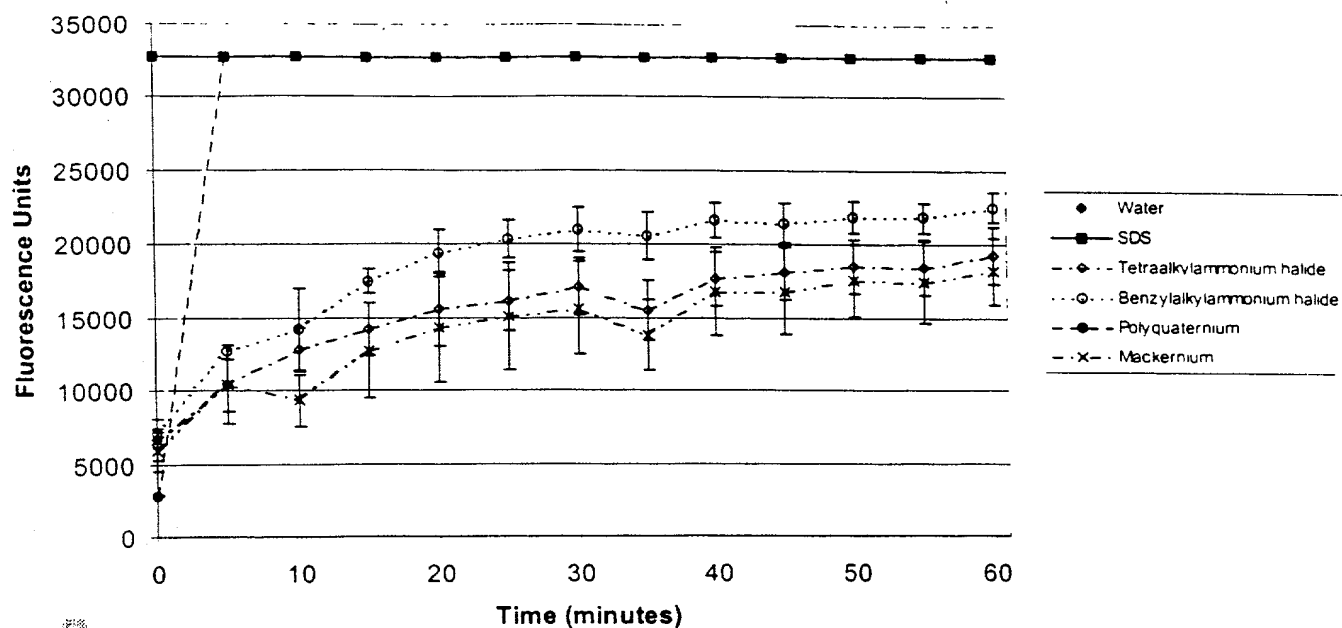


Figure 2A

2.5 ug/mL Proteinase K

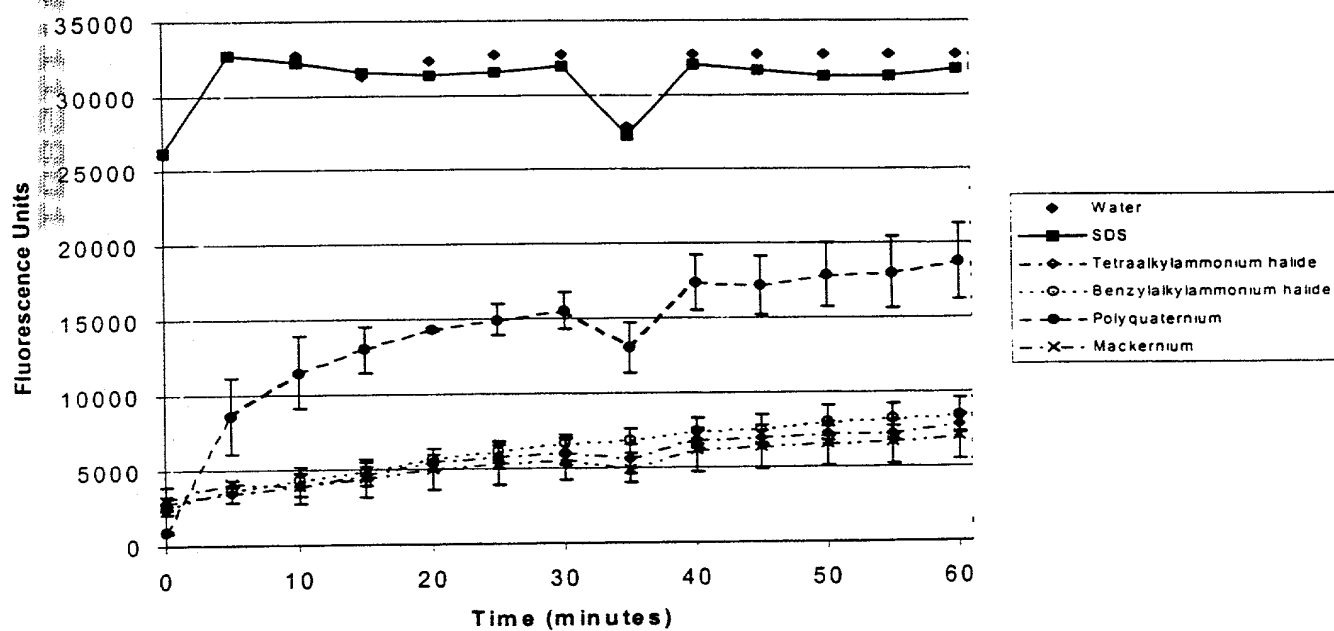


Figure 2B

1.25 ug/mL Proteinase K

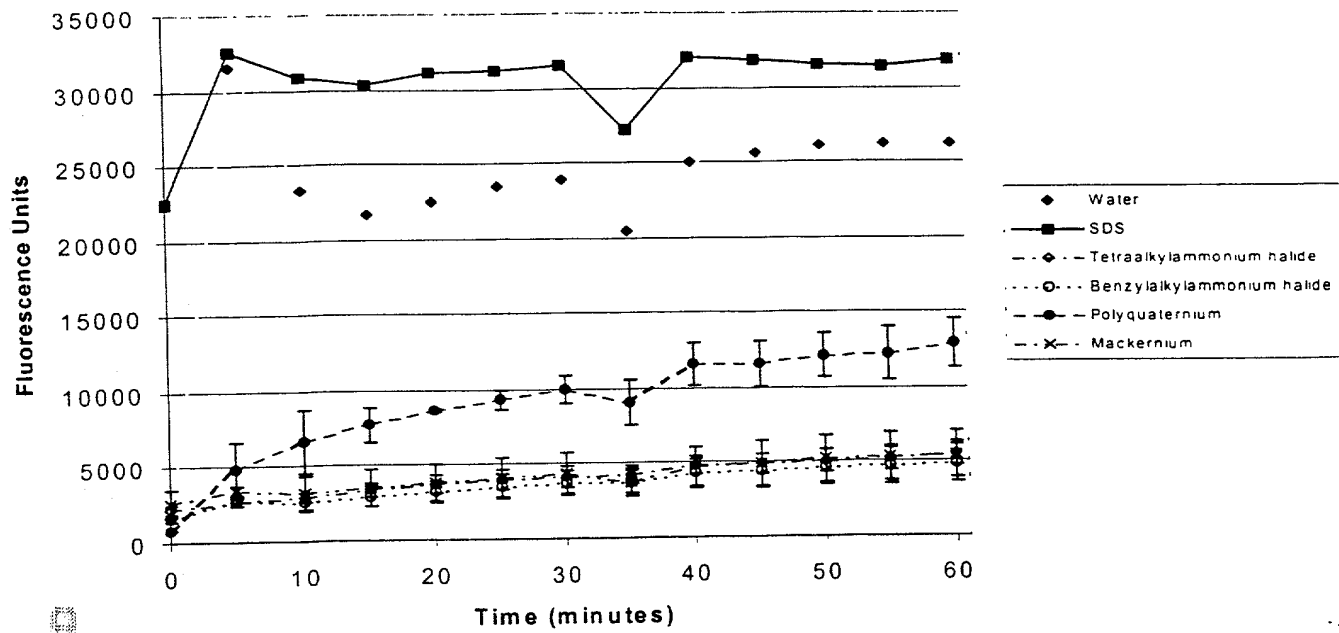


Figure 2C

Amount nucleic acid recovered from liver

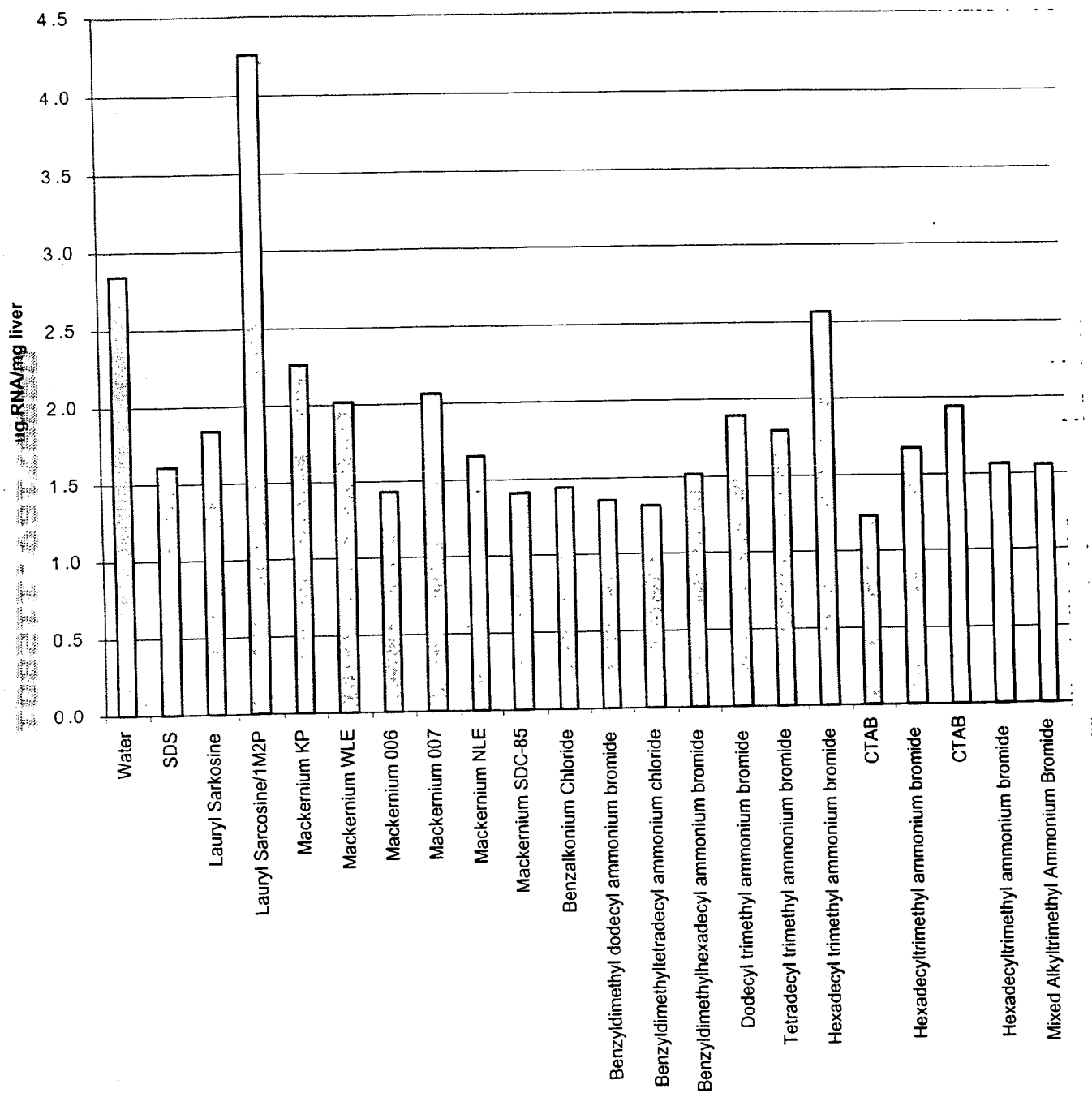


Figure 3

100377-69746650

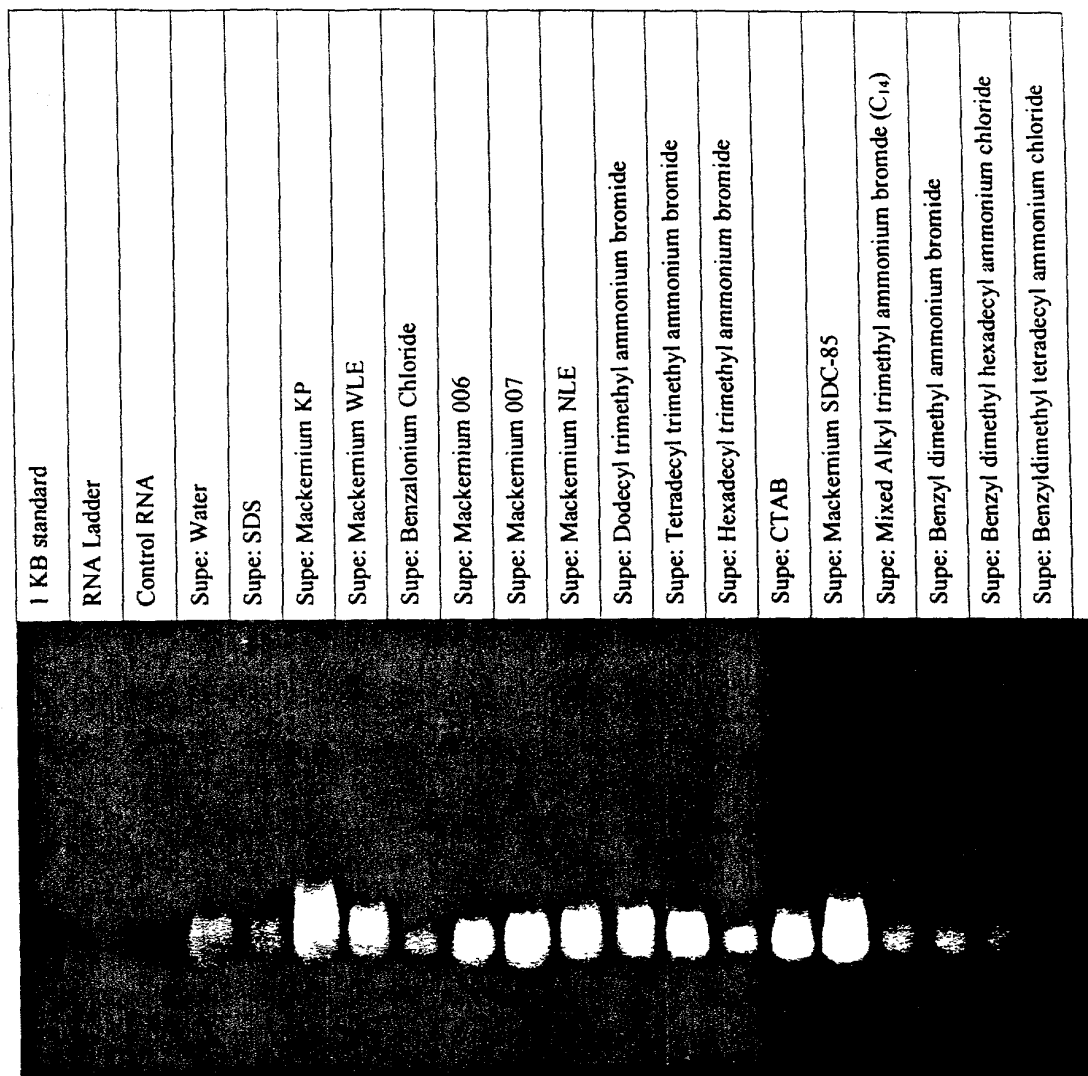


Figure 4

700011 69720000

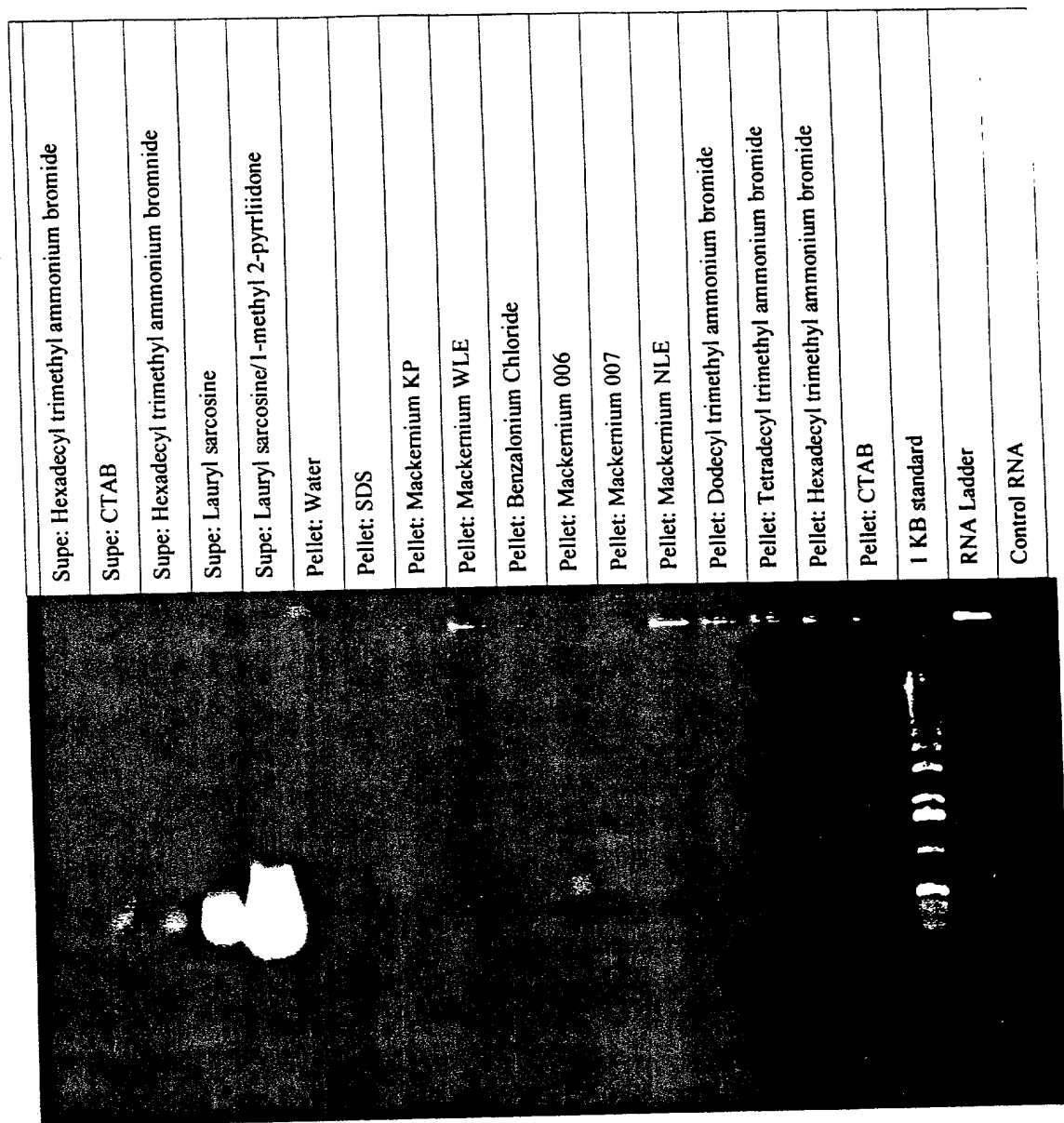


Figure 4 (cont.)

Amount nucleic acid released from liver
2 mg/mL Proteinase K 45°C 20 minutes plus

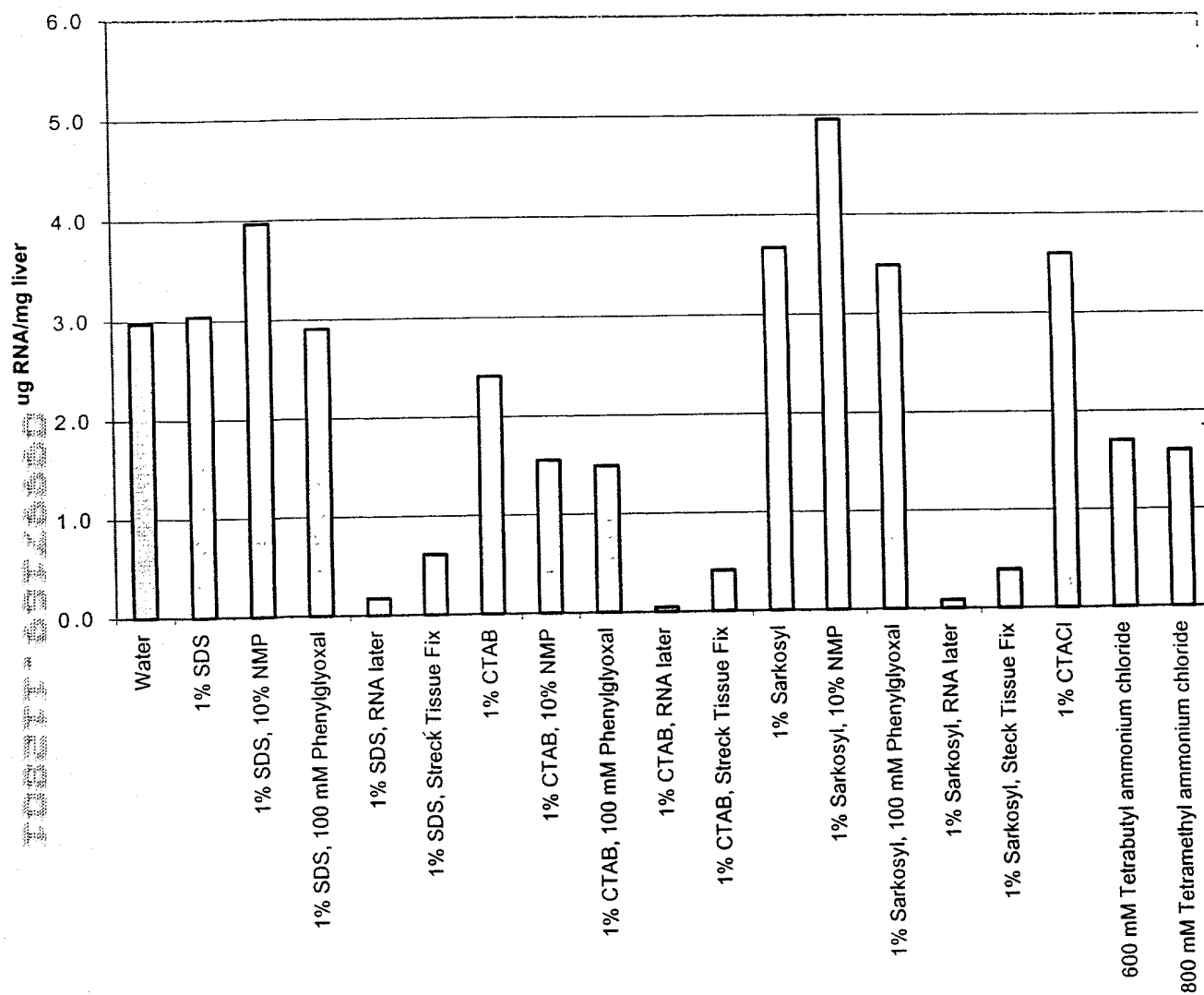


Figure 5

1KB DNA Standard	
RNA Ladder	
Human RNA control	
	No detergent
	1% SDS
10% 1 Methyl 2-pyrrolidinone	1% SDS
100 mM phenylglyoxal	1% SDS
RNA Later	1% SDS
Streck Tissue Fixative	1% SDS
	1% CTAB
10% 1 Methyl 2-pyrrolidinone	1% CTAB
100 mM phenylglyoxal	1% CTAB
RNA Later	1% CTAB
Streck Tissue Fixative	1% CTAB
	1% Sarkosyl
10% 1 Methyl 2-pyrrolidinone	1% Sarkosyl
100 mM phenylglyoxal	1% Sarkosyl
RNA Later	1% Sarkosyl
Streck Tissue Fixative	1% Sarkosyl
	1% CTACl
600 mM tetrabutyl ammonium	No detergent
800 mM tetramethyl	No detergent

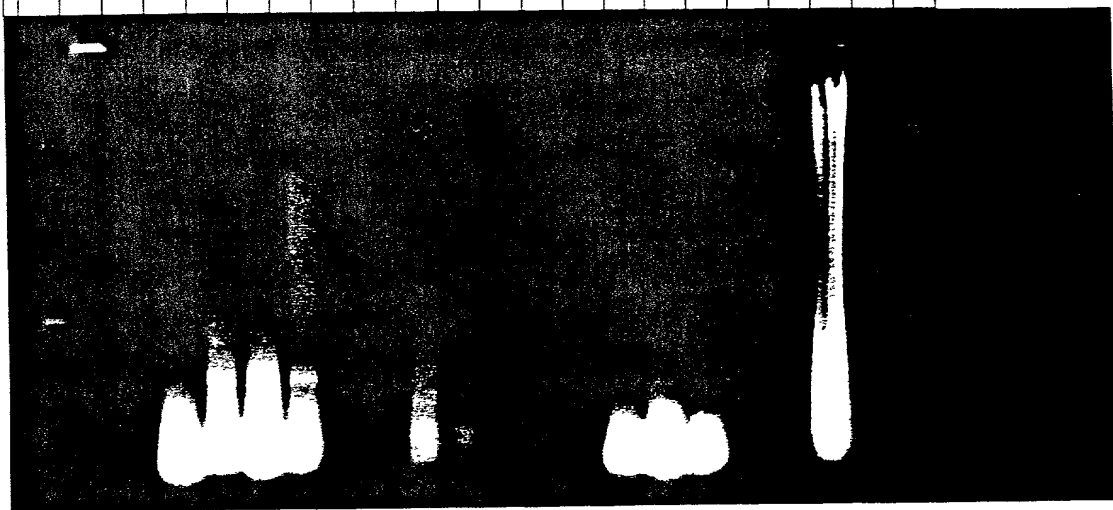


Figure 6

Release of OD260 from Liver
1 mg Proteinase K, 45oC 30 minutes

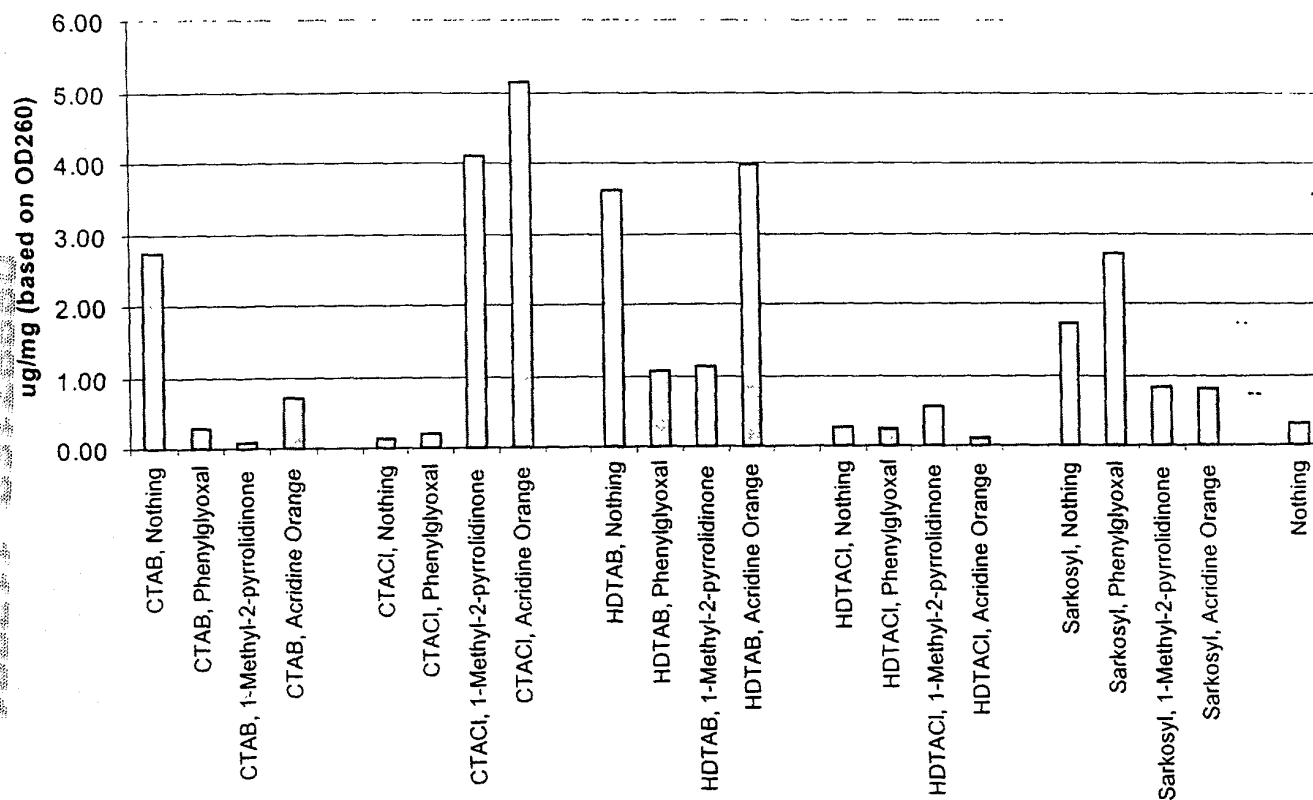


Figure 7

None	Cetyltrimethylammonium bromide	
phenylglyoxal	Cetyltrimethylammonium bromide	
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium bromide	
Acridine Orange	Cetyltrimethylammonium bromide	
None	Cetyltrimethylammonium chloride	
phenylglyoxal	Cetyltrimethylammonium chloride	
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium chloride	
Acridine Orange	Cetyltrimethylammonium chloride	
None	Hexadecyltrimethylammonium bromide	
phenylglyoxal	Hexadecyltrimethylammonium bromide	
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium bromide	
Acridine Orange	Hexadecyltrimethylammonium bromide	
None	Hexadecyltrimethylammonium chloride	
phenylglyoxal	Hexadecyltrimethylammonium chloride	
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium chloride	
Acridine Orange	Hexadecyltrimethylammonium chloride	
None	Sarkosyl	
phenylglyoxal	Sarkosyl	
1-methyl-2-pyrrolidinone	Sarkosyl	
Acridine Orange	Sarkosyl	
	No detergent	

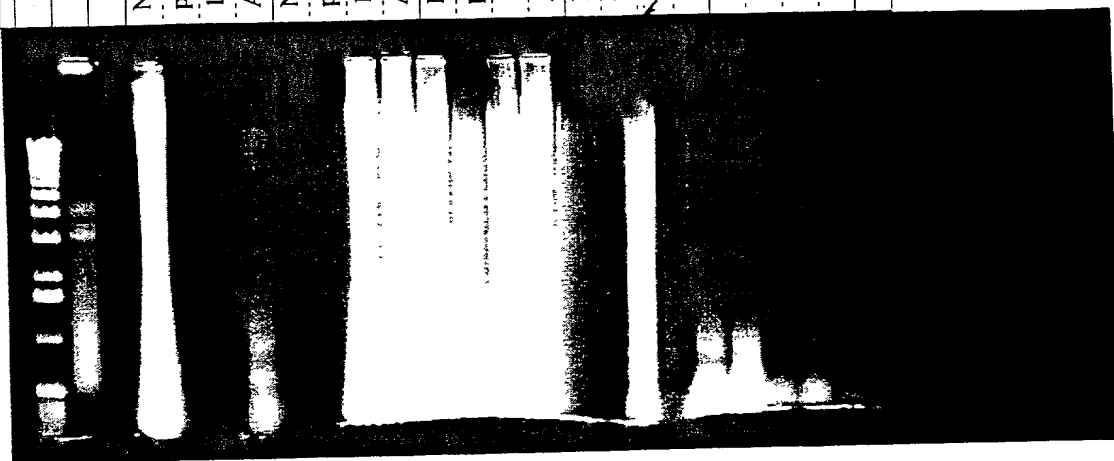


Figure 8

Effect of Tissue Presoaking 1 mg Proteinase K, 45°C 30 minutes

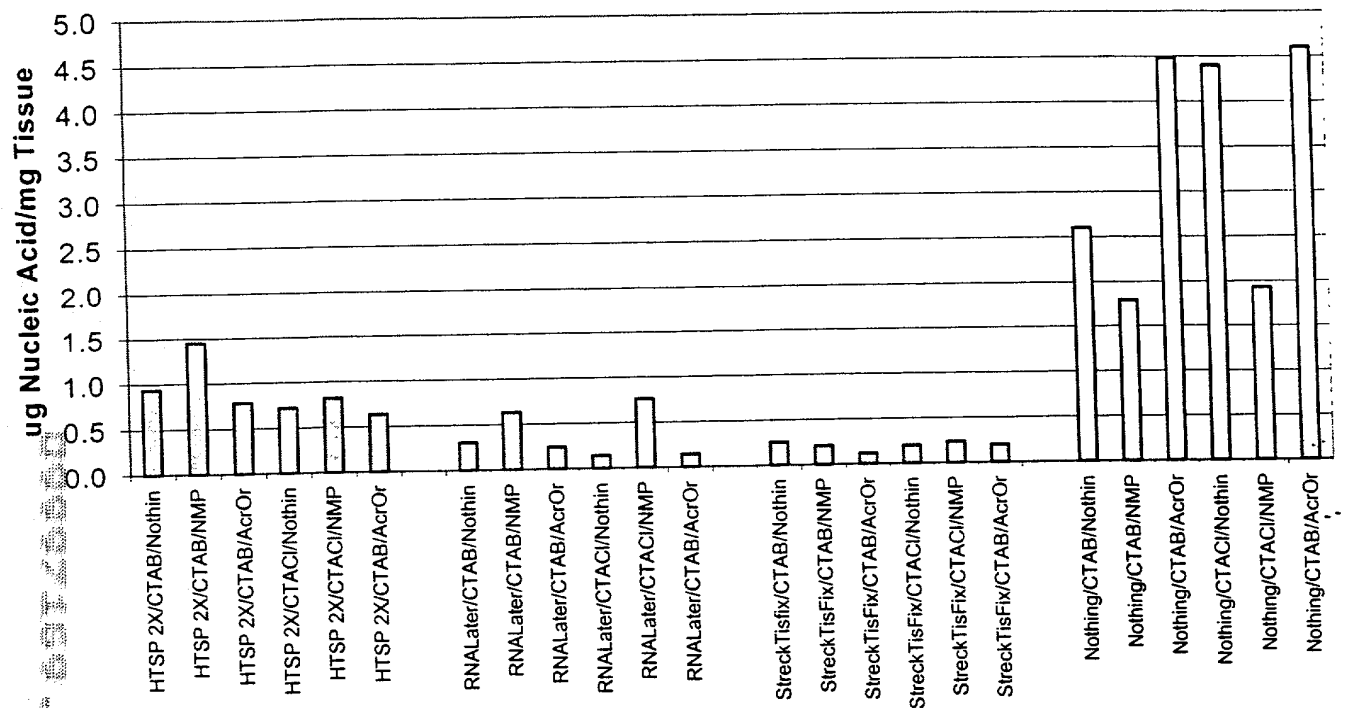


Figure 9

1000155 45555

		2XHTSP		RNA Later		Streck Tissue Fixat		Nothing	
		CTAB	CTACI	CTAB	CTACI	CTAB	CTACI	CTAB	CTACI
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								
	Nothing								
	1-methyl-2-pyrrolidinone								
	Acridine Orange								



Figure 10

1% CTAB						1% CTACl						1% SDS					
5 mM Aurintricarboxylic Acid						5 mM Aurintricarboxylic Acid						5 mM Aurintricarboxylic Acid					
2 mM Aurintricarboxylic Acid						2 mM Aurintricarboxylic Acid						2 mM Aurintricarboxylic Acid					
1 mM Aurintricarboxylic Acid						1 mM Aurintricarboxylic Acid						1 mM Aurintricarboxylic Acid					
0.5 mM Aurintricarboxylic Acid						0.5 mM Aurintricarboxylic Acid						0.5 mM Aurintricarboxylic Acid					
0.2 mM Aurintricarboxylic Acid						0.2 mM Aurintricarboxylic Acid						0.2 mM Aurintricarboxylic Acid					
0.1 mM Aurintricarboxylic Acid						0.1 mM Aurintricarboxylic Acid						0.1 mM Aurintricarboxylic Acid					

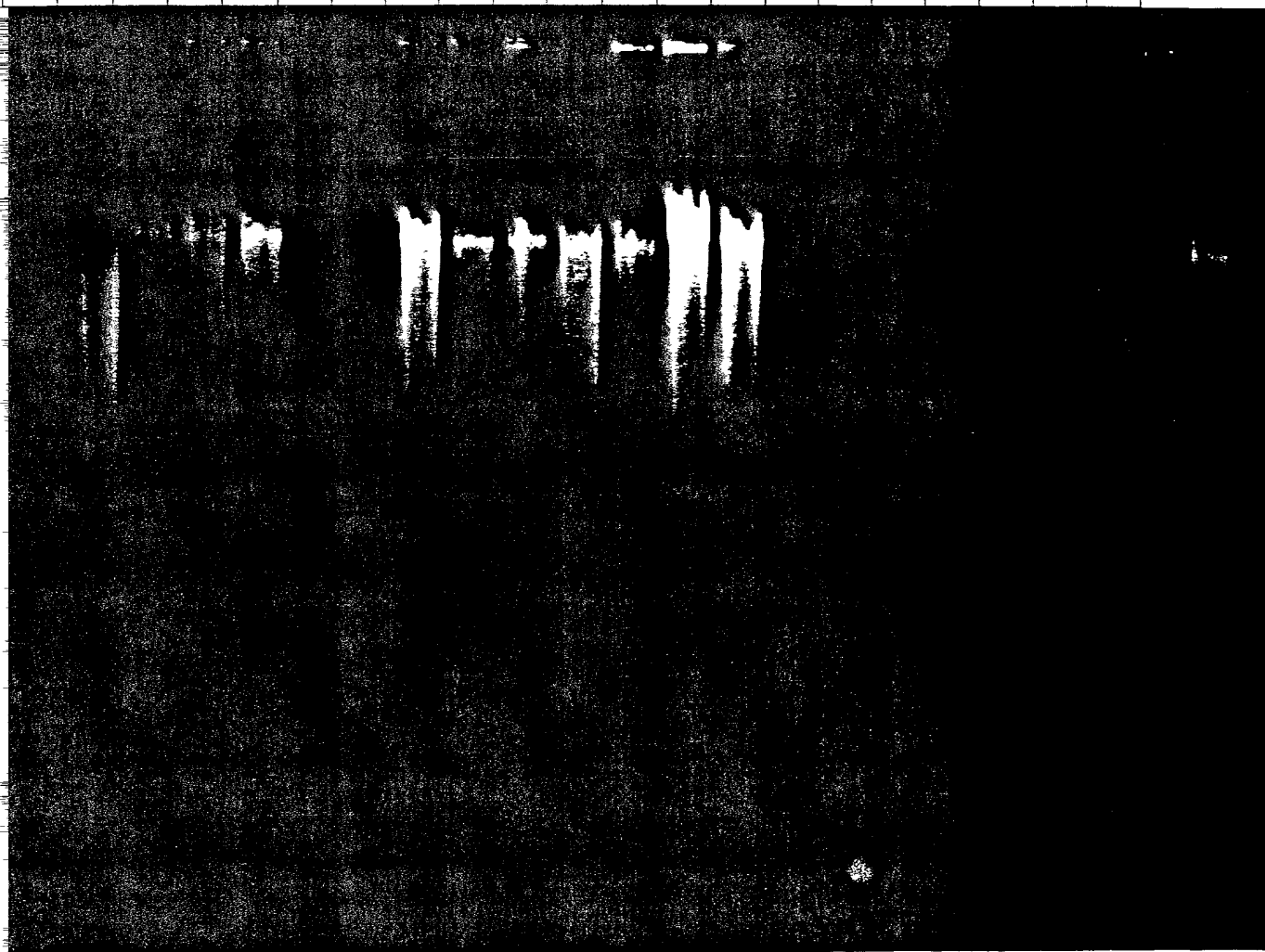
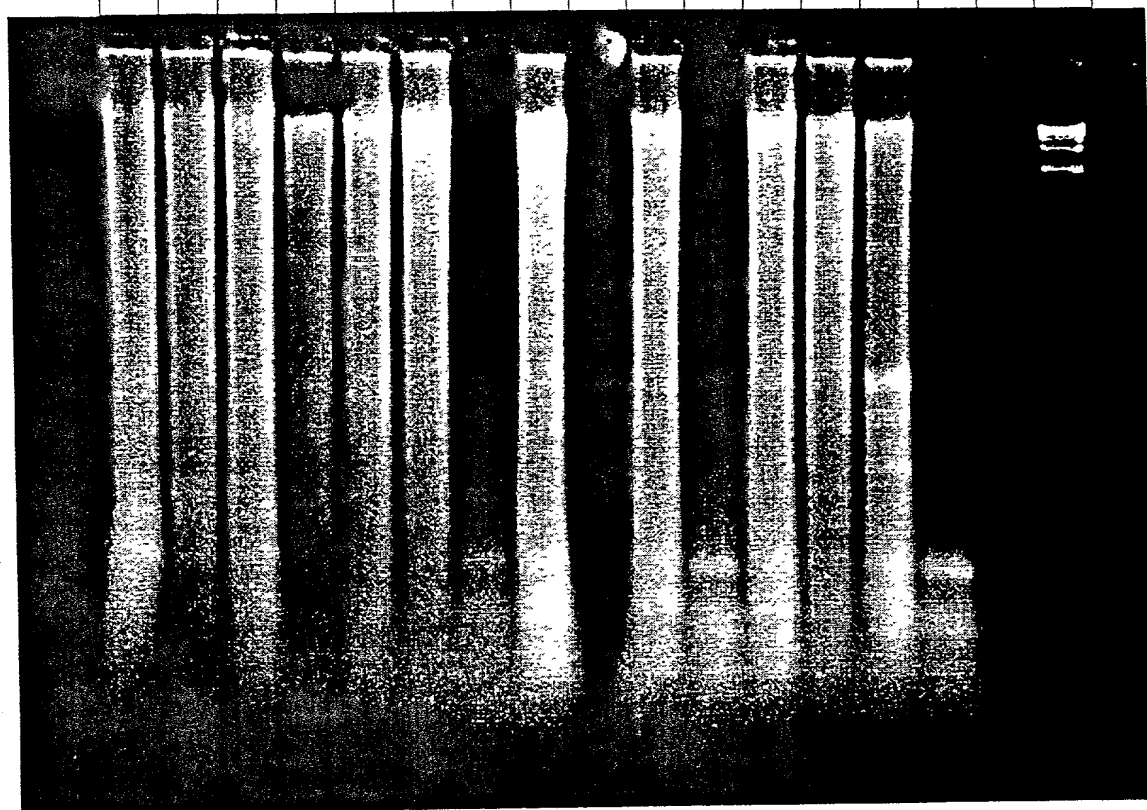


Figure 11



Dodecyltrimethylammonium bromide
Tetradecyltrimethylammonium bromide
Cetyltrimethylammonium bromide
Cetyltrimethylammonium chloride
Hexadecyltrimethylammonium bromide
Hexadecyltrimethylammonium bromide
Mackernium 006 (Polyquaternium 6)
Mackernium KP (Olealkonium chloride)
Mackernium NLE (Quaternium-84)
Mackernium 007 (Polyquaternium-7)
Mackernium Stearalkonium SDC85 Chloride
Benzalkonium chloride
SDS
Nothing

Figure 12

10331-637-6550

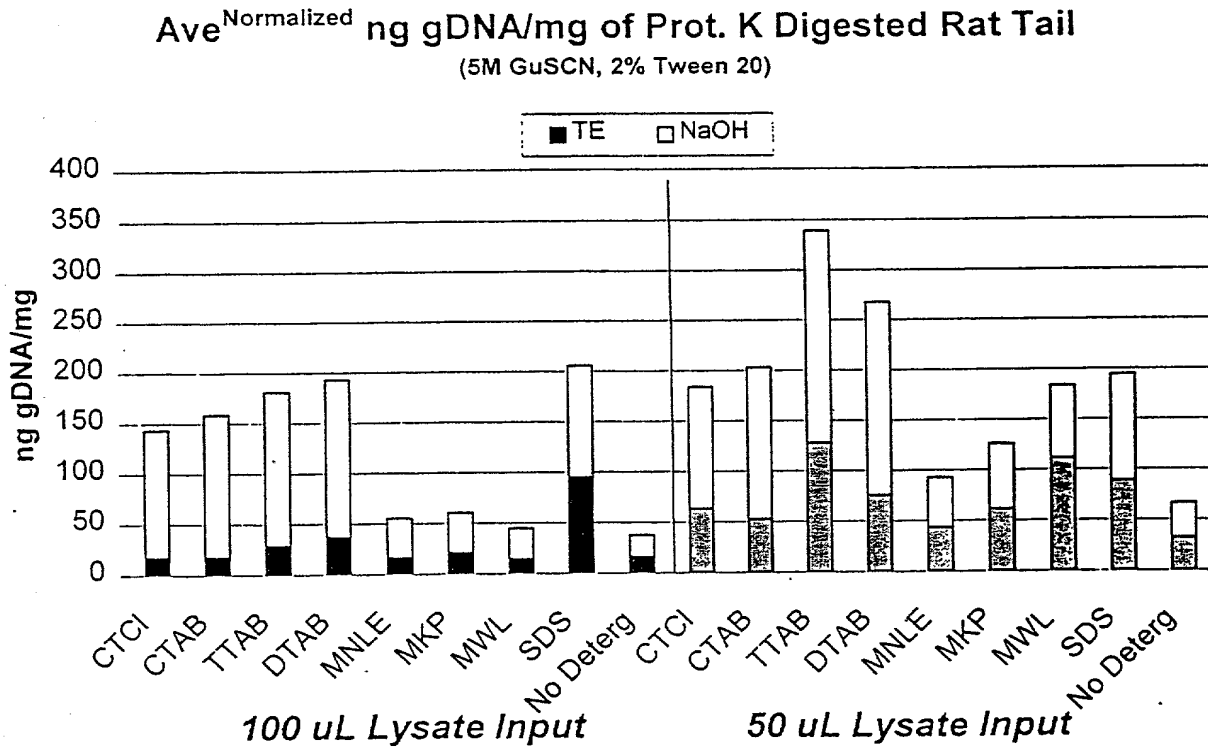


Figure 13

Recovery of Naked gDNA Bound on GF/B under Different pH and Chaotropic Conditions (With 2% Tween-20)

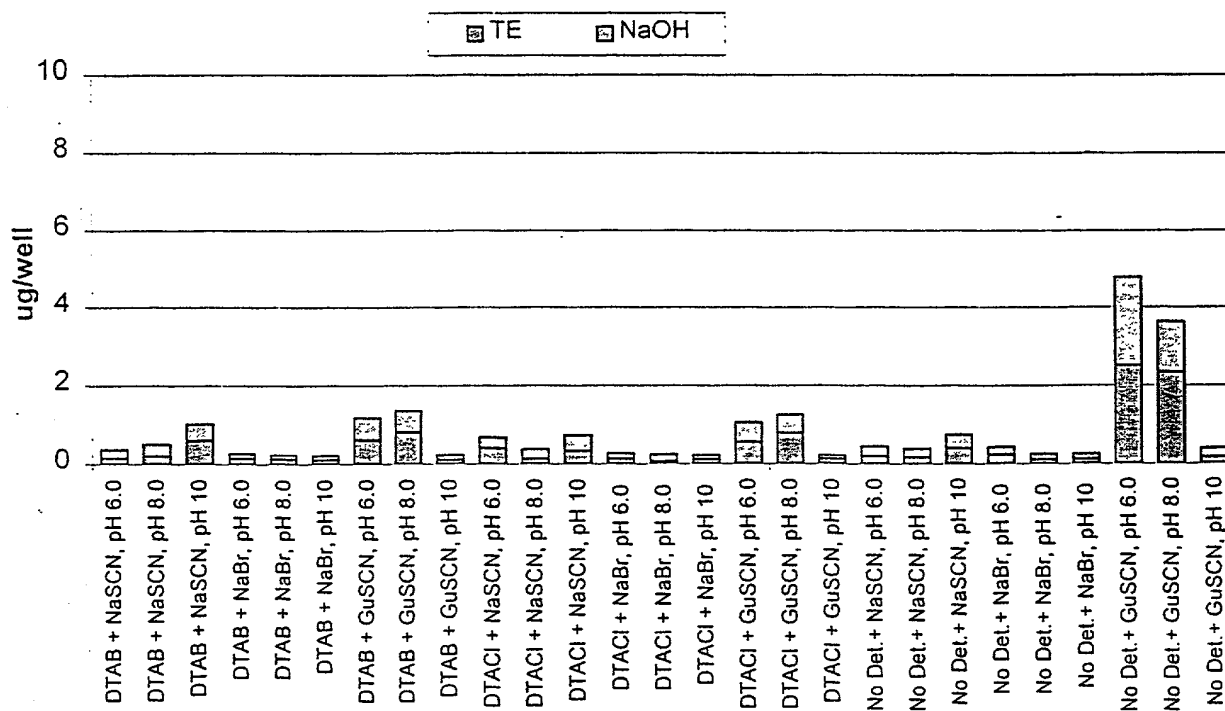


Figure 14

Recovery of Naked gDNA Bound on GF/B under Different pH and Chaotropic Conditions (No Tween-20)

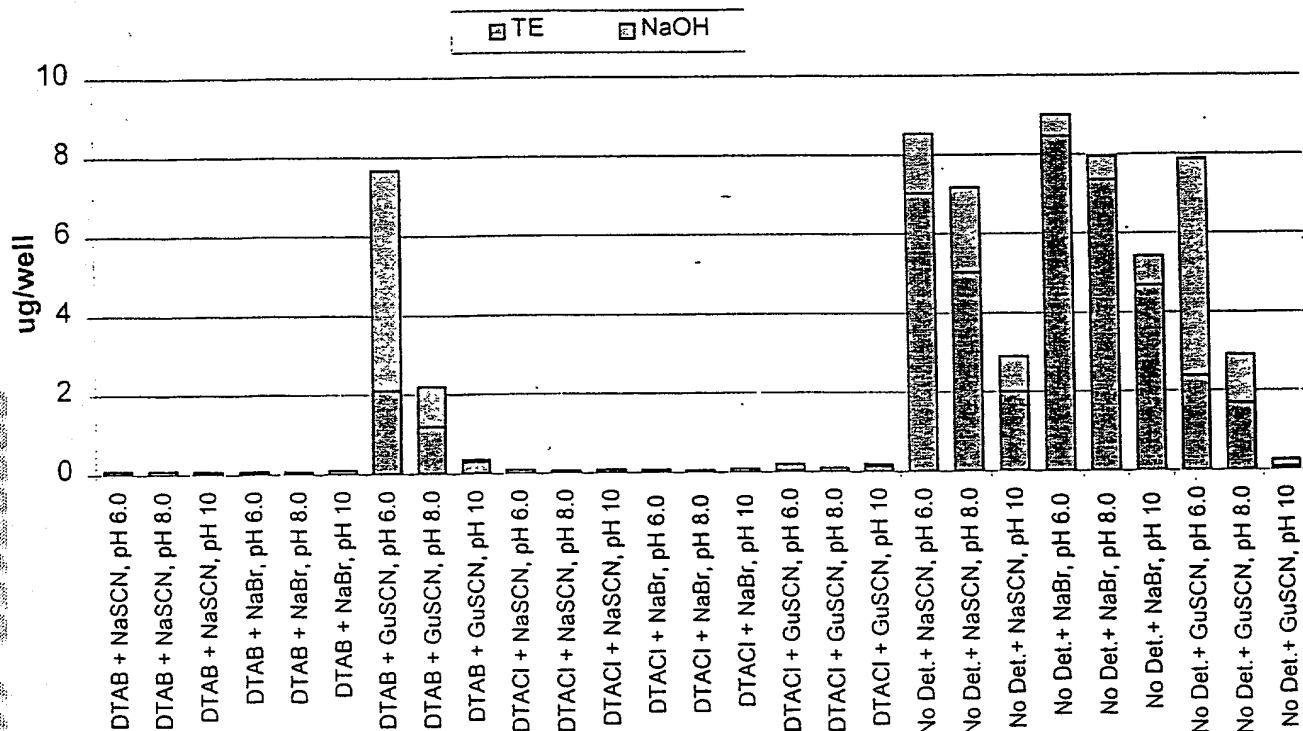


Figure 15

Effect of DTAB Added Before, During and After
DNA Binding on DNA Recovery (Input: 8 ug, N=3)

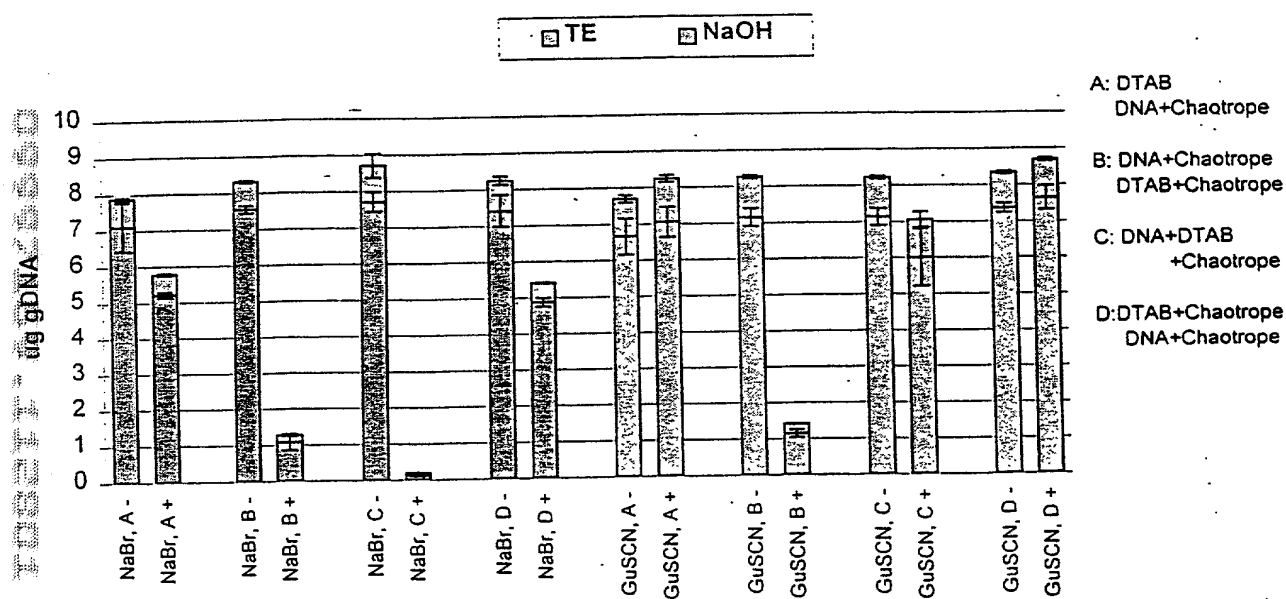


Figure 16

100377-091-0000

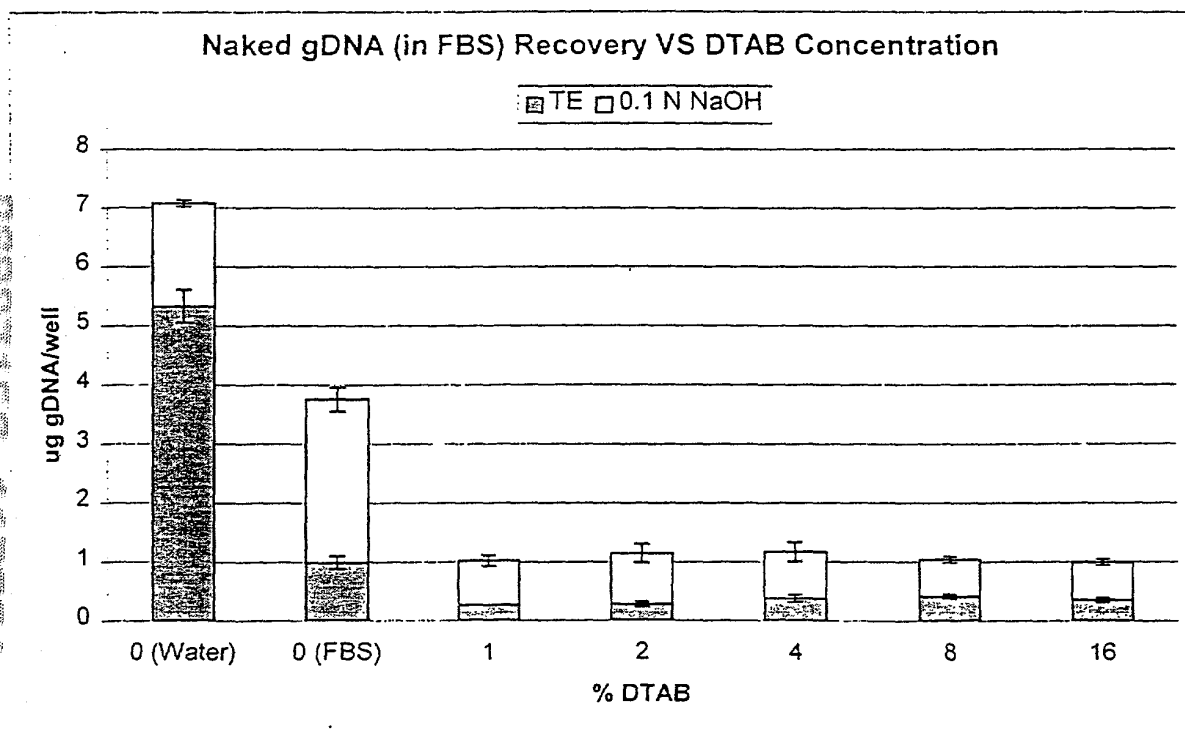


Figure 17

Naked gDNA (in FBS) Recovery VS ATA Concentration

100011 69746660

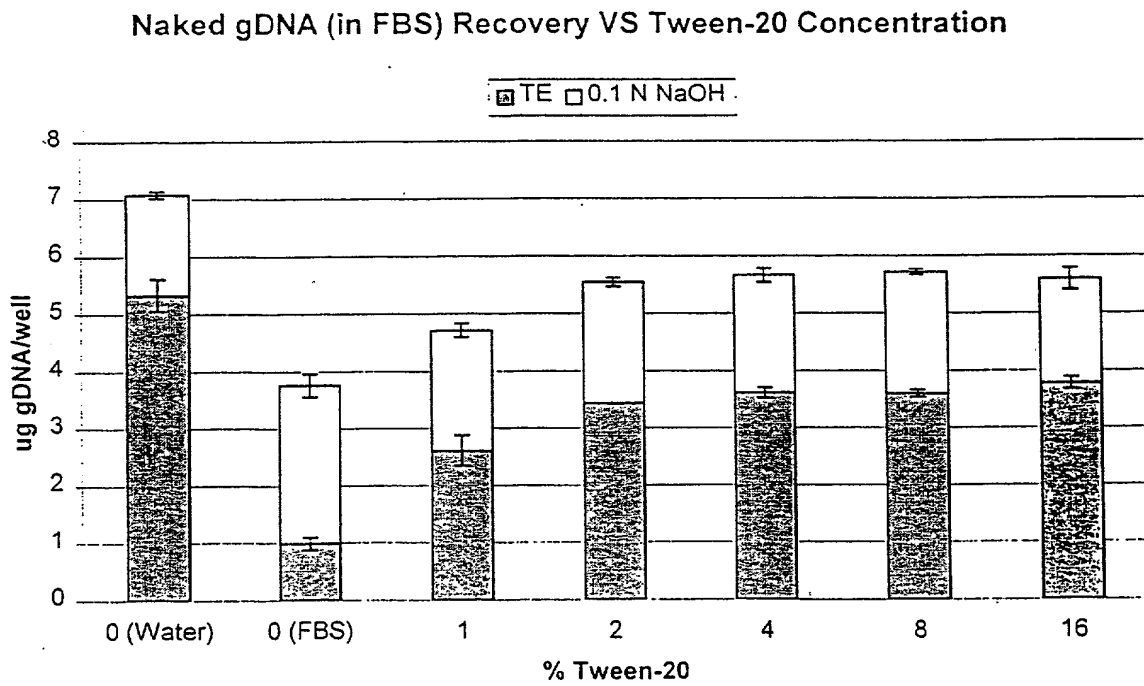


Figure 19

100211 09121000

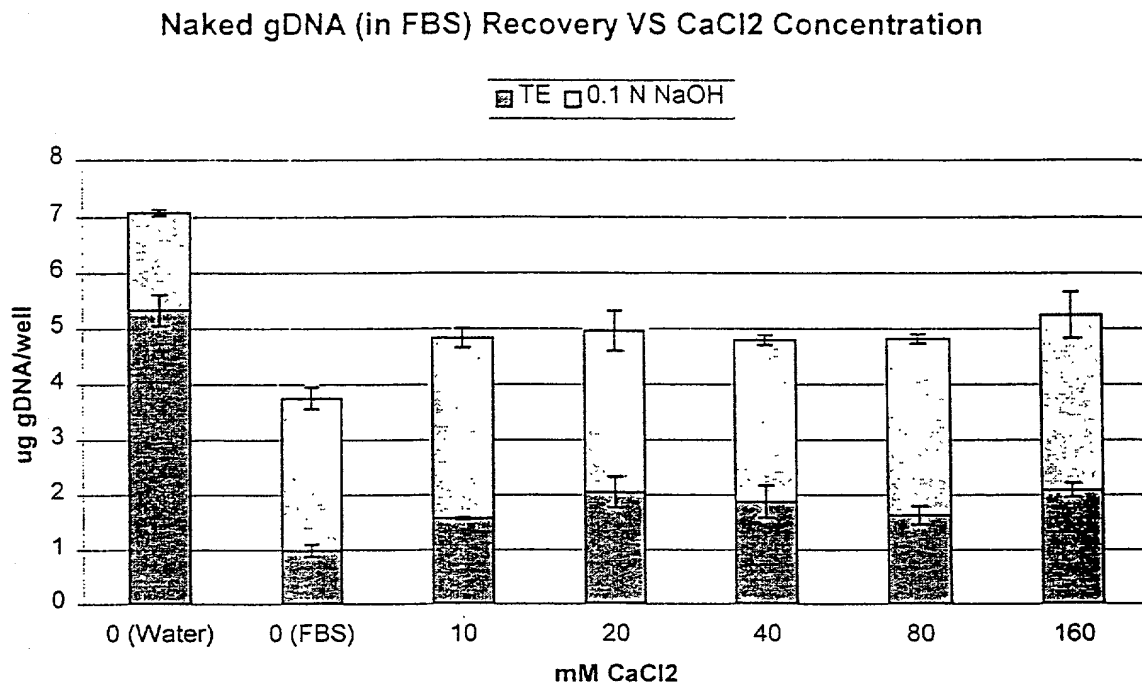


Figure 20

103311 691 26660

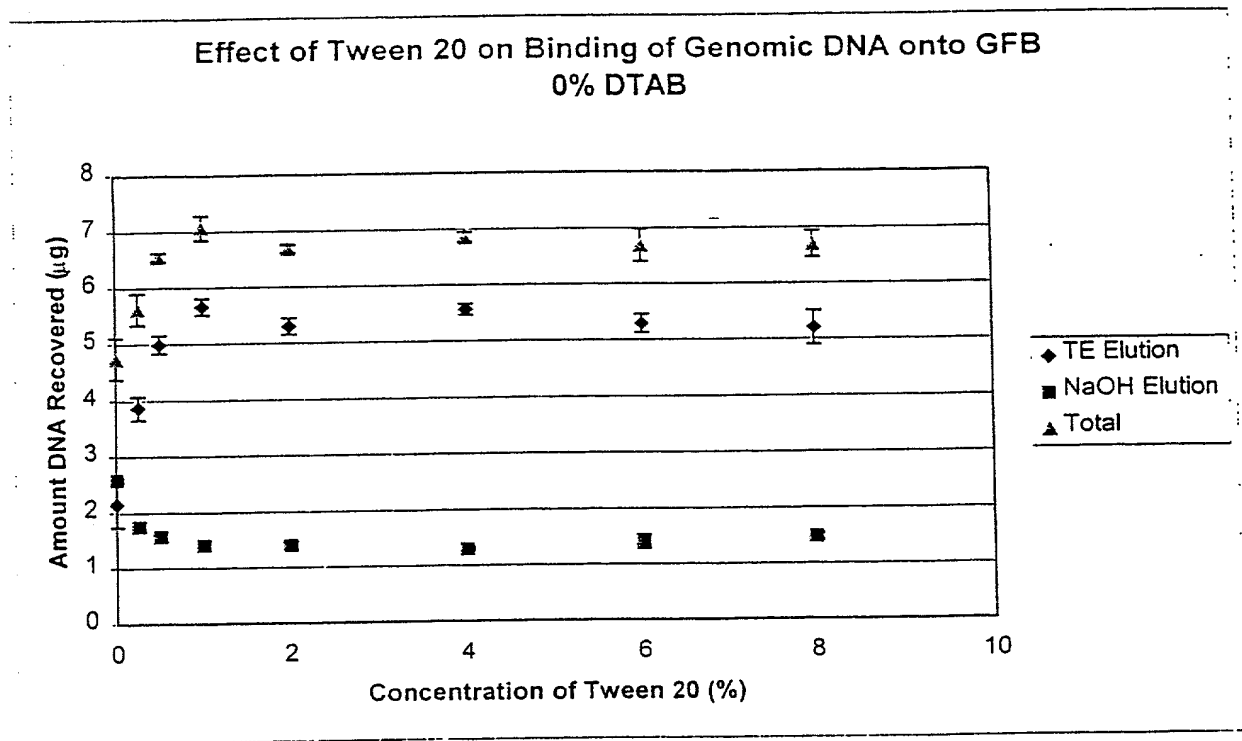


Figure 21

Effect of Tween 20 on Binding of Genomic DNA onto GFB
1% DTAB

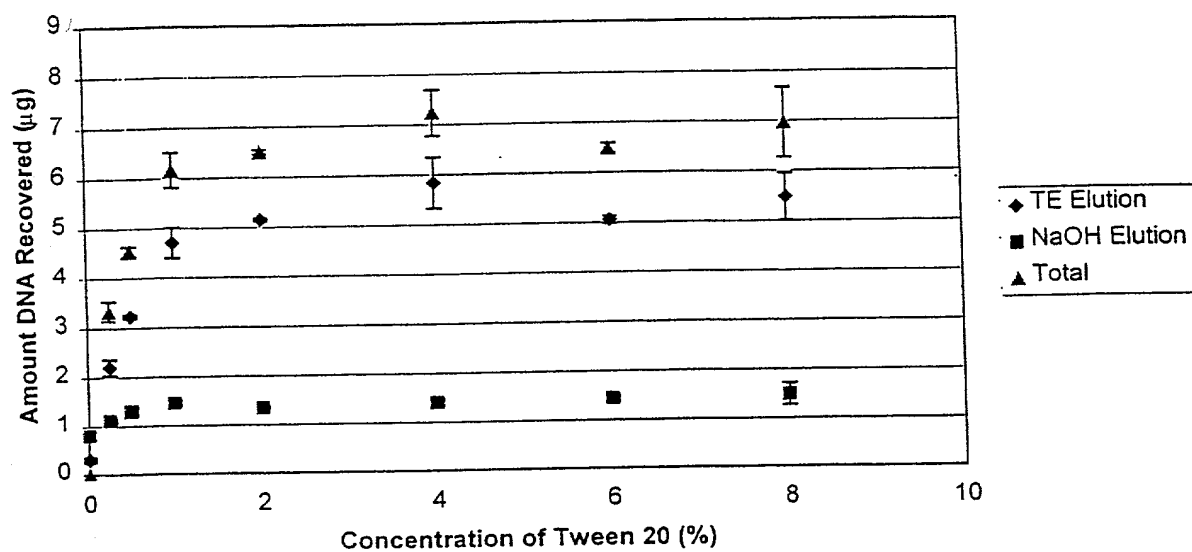


Figure 22

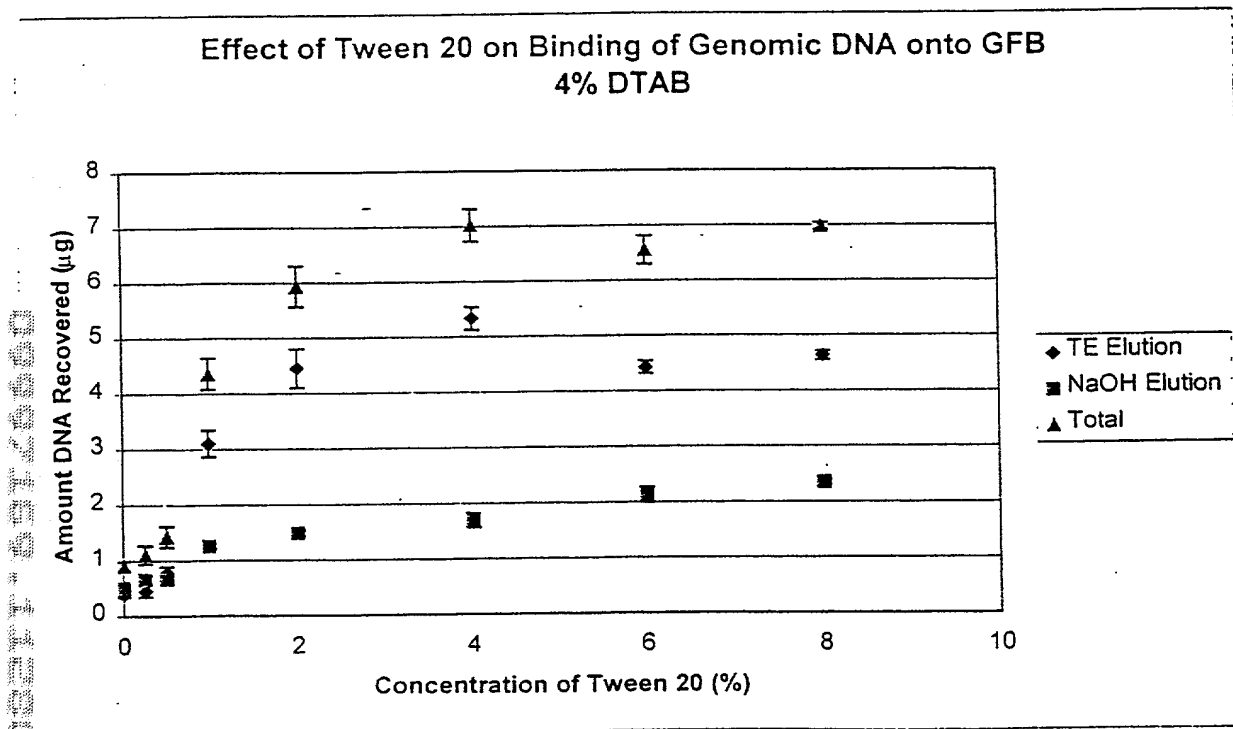


Figure 23

Effect of Tween 20 on Binding Genomic DNA onto GFB
Total

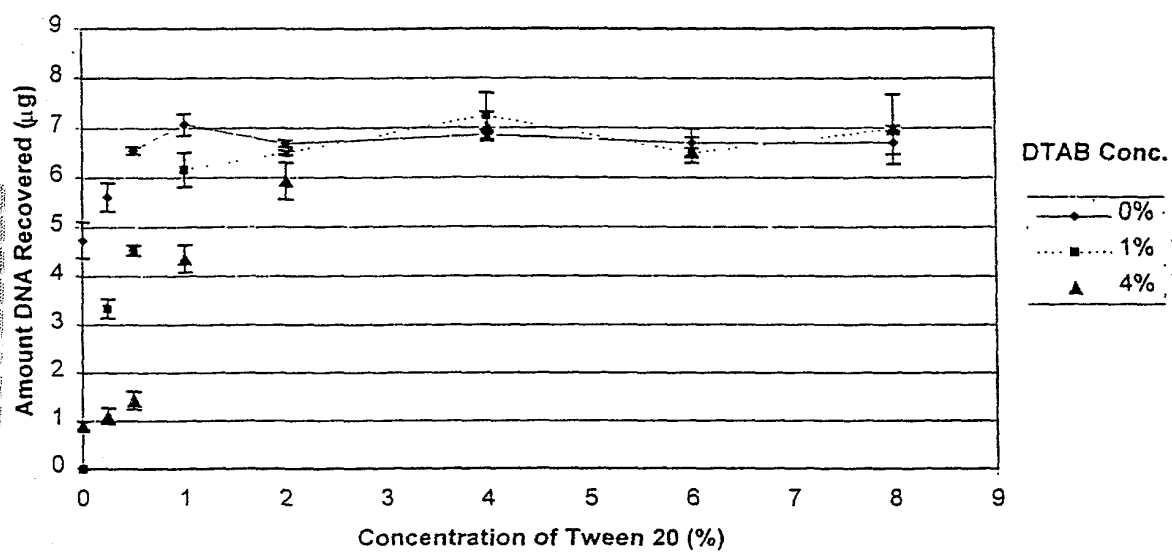


Figure 24

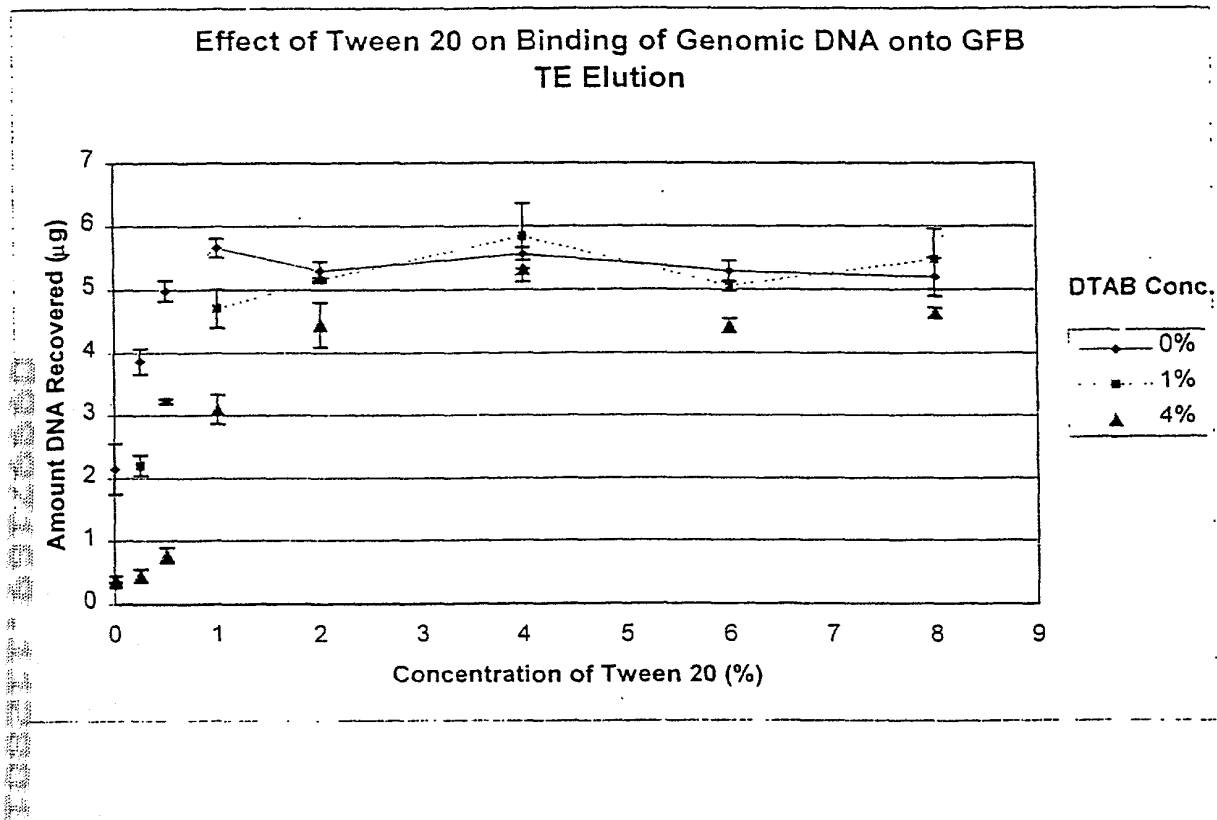


Figure 25

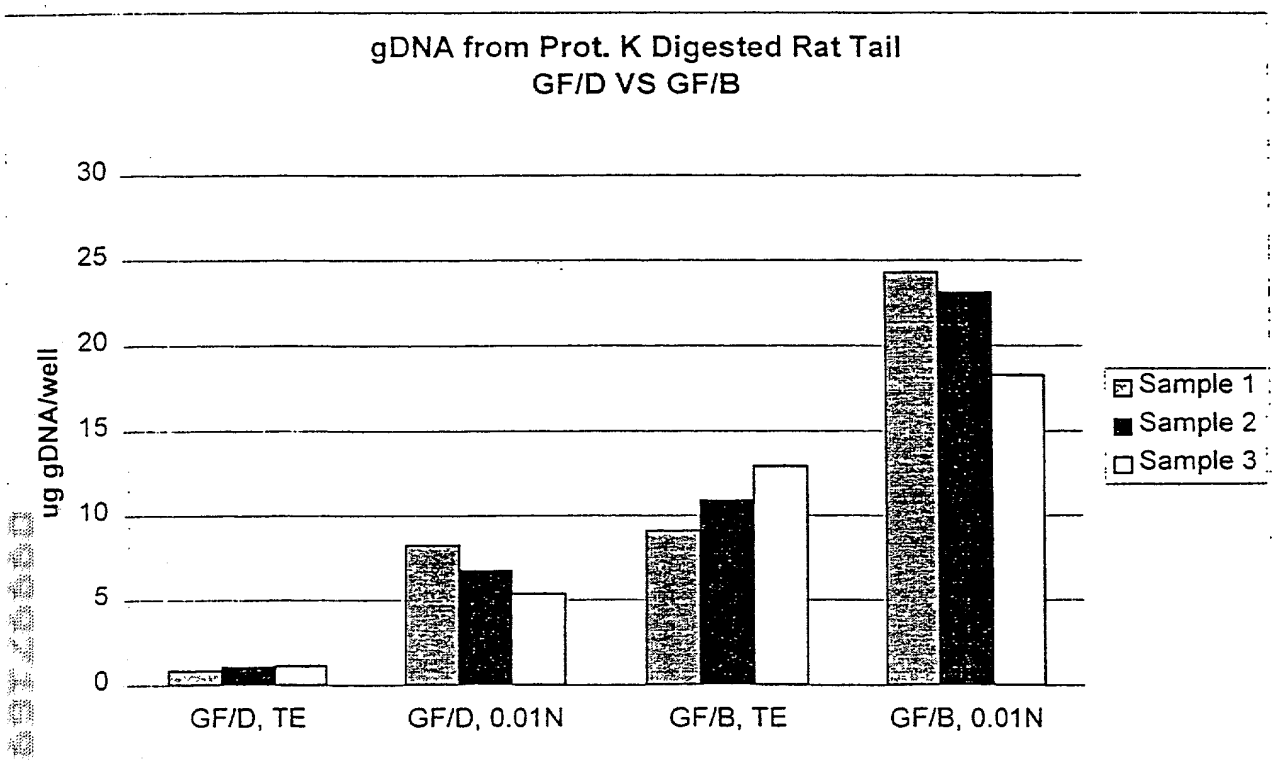


Figure 26

Robert 69126550

Total gDNA from Prot. K-Digested Rat Tail
GF/D VS GF/B

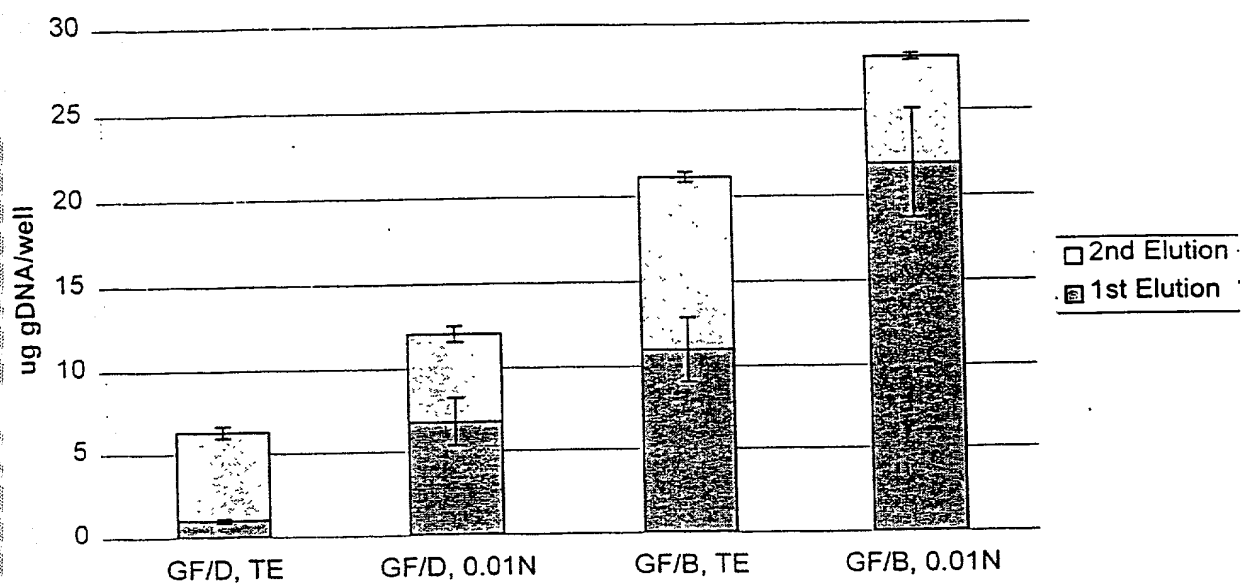
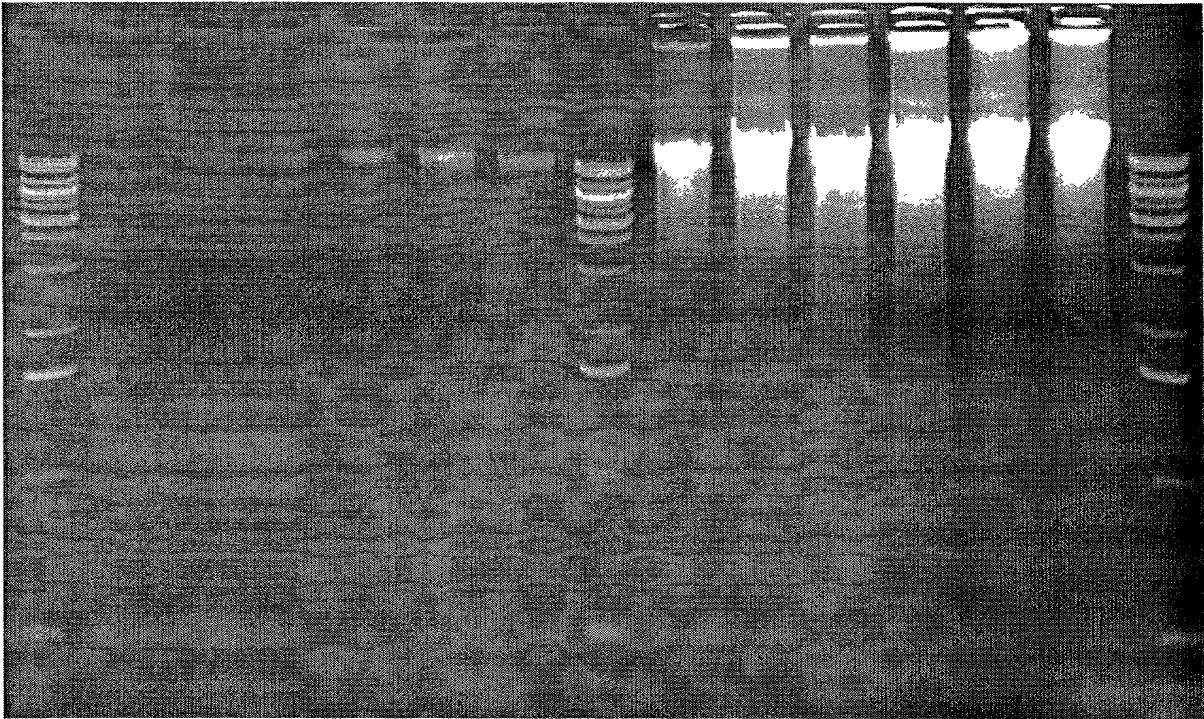


Figure 27

Membrane	GF/D			GF/B		
Elution	TE	0.1 N NaOH		TE	0.1 NaOH	



Genomic DNA from 50 mg rat tail sections digested with 1 mg of Prot. K & 1% DTAB and bound onto GF/B and GF/D membranes under 3.75 M GuSCN and 4.5 % Tween 20. The gDNA was finally eluted with of 150 mL of 1X TE and 0.01 N NaOH solutions and 20 mL was used for gel electrophoresis (1 % agarose).

Figure 28

gDNA Recovery and Purity from 50 mg Rodent Tissues (3 GF/B Layers)

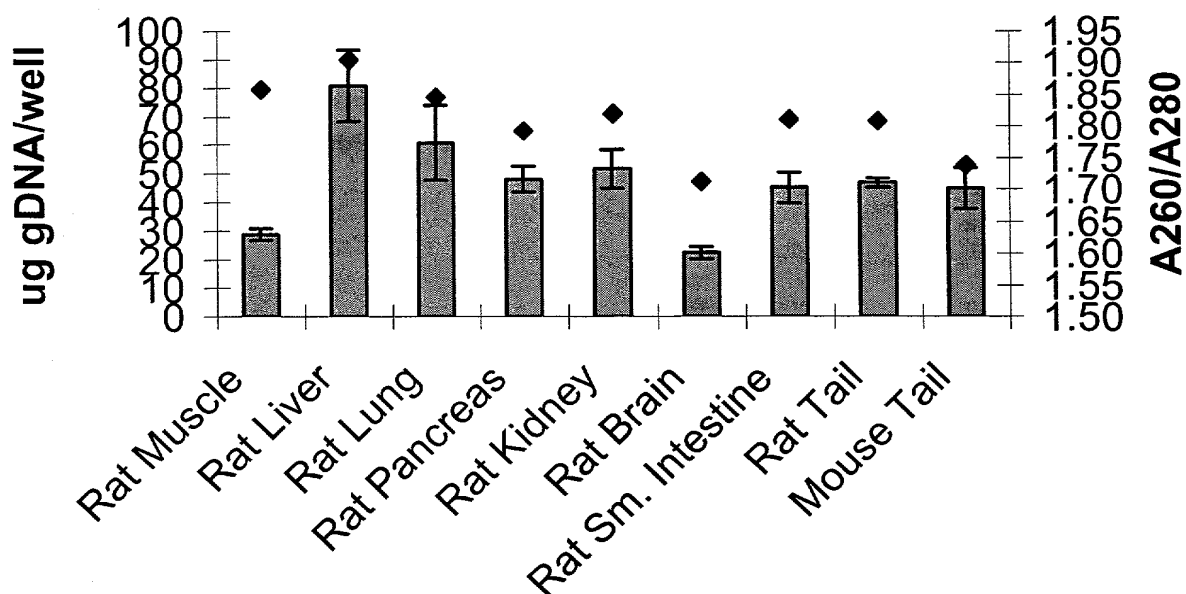


Figure 29

gDNA from 50 mg Rat Tissues

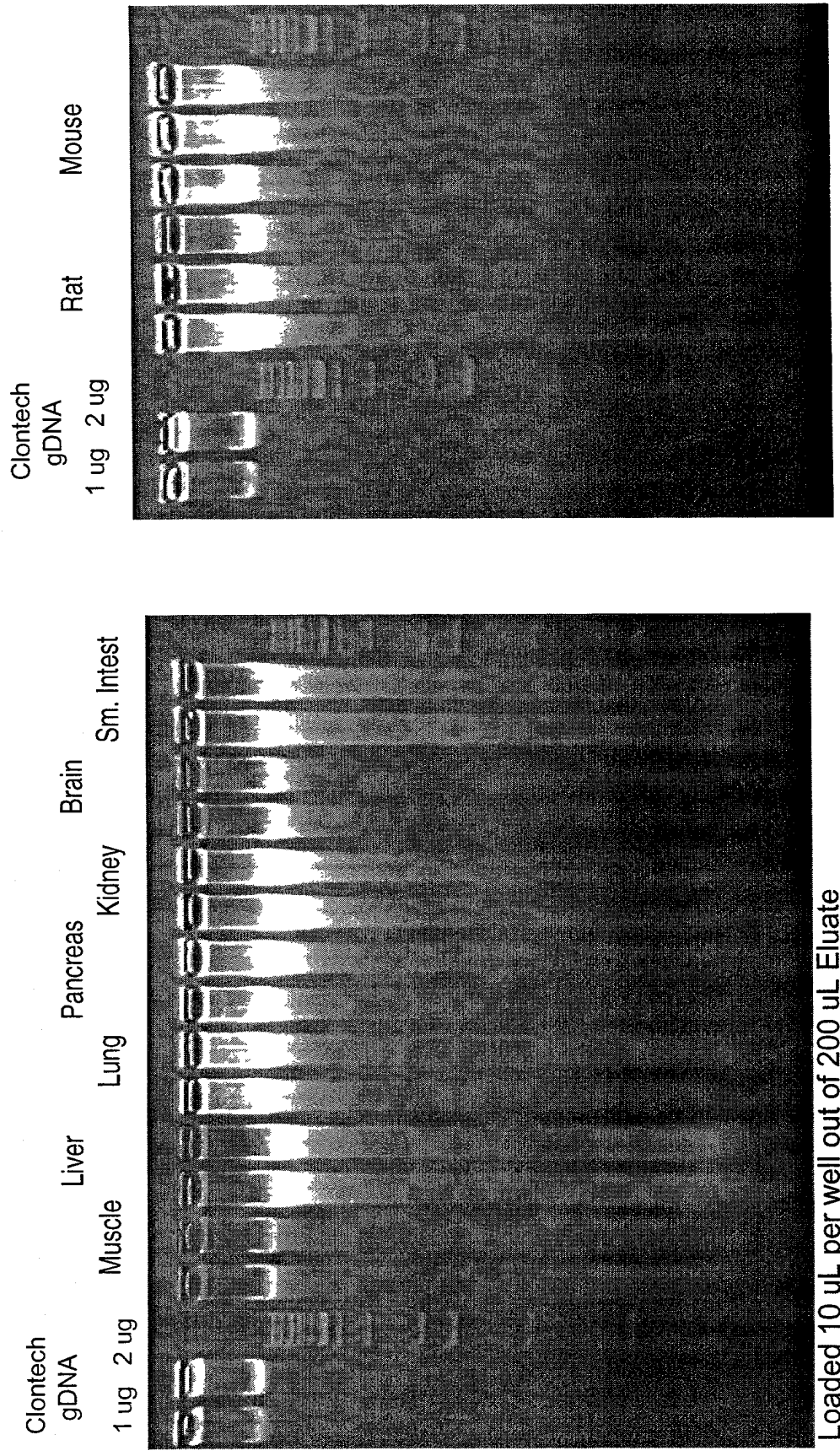


Figure 30